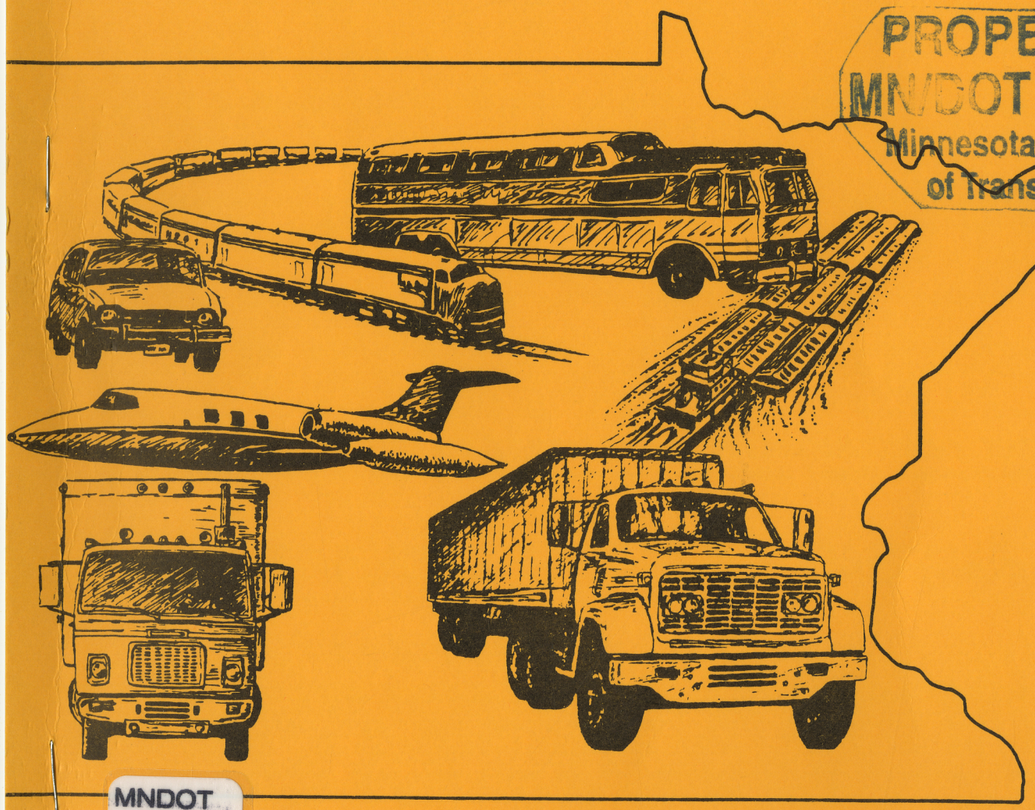
Transportation Analysis

TA-M333

CSAH 9 FROM TH494 TO NATHAN



PREPARED BY
THE MINNESOTA DEPARTMENT OF TRANSPORTATION
PROGRAM MANAGEMENT DIVISION
TRAFFIC AND COMMODITIES SECTION

Minnesota Department of Transportation
Transportation Building, St. Paul, MN 55155

June 14, 1985 Phone 296-0217

David W. Schmidt, P.E.
Planning and Programming
Hennepin County
Department of Transportation
320 Washington Avenue South
Hopkins, Minnesota 55343

Dear Mr. Schmidt:

This report is in response to your letter of November 26, 1984 requesting forecasted year 2010 traffic volumes on various routes in Hennepin County.

Projected year 2010 Average Weekday Traffic (AWDT), peak hour volumes, Heavy Commercial AWDT (HCAWDT) and turning movements are attached for CSAH 9.

Volumes shown are based on the following data sources:

1. The latest Metropolitan Council year 2000 computer traffic assignments of AWDT, peak hour volumes and HCAWDT assigned to the future year 2000 road network (2000B/F2000).

2. Mn/DOT "current" and historical counts of Average Daily Traffic (ADT), peak hour volumes, and Heavy Commercial ADT (HCADT).

3. "Current" turning movement volumes at various intersections/ interchanges taken by Hennepin County staff and Mn/DOT Forecasts Unit staff.

4. Field trips to the project area.

5. Local socio-economic data prepared by the Metropolitan Council for the years 1980 and 2000 along with estimates for the year 2010 (estimates from: Forecasts for Determining Facility Size by the Metropolitan Council, April 1985).

In addition, we extracted a window of the project area from our regional network. By using the microcomputer software package Interactive Routing Assignment Process (IRAP), we were able to obtain a better project level forecast than the regional network provides. IRAP allows us to divide the zones into smaller areas and use multipath trip assignments for our zonal vehicular trip interchanges.

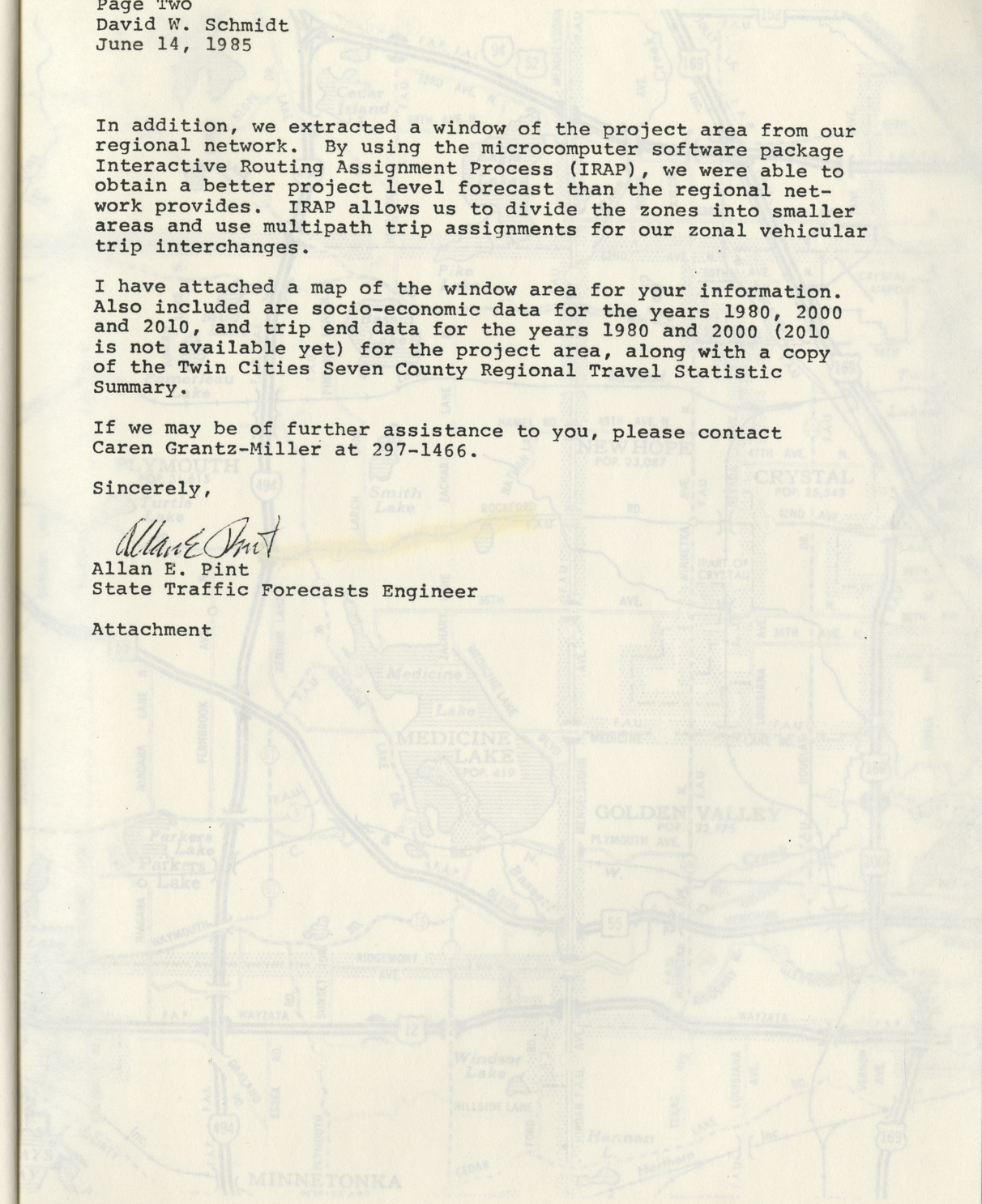
I have attached a map of the window area for your information. Also included are socio-economic data for the years 1980, 2000 and 2010, and trip end data for the years 1980 and 2000 (2010 is not available yet) for the project area, along with a copy of the Twin Cities Seven County Regional Travel Statistic Summary.

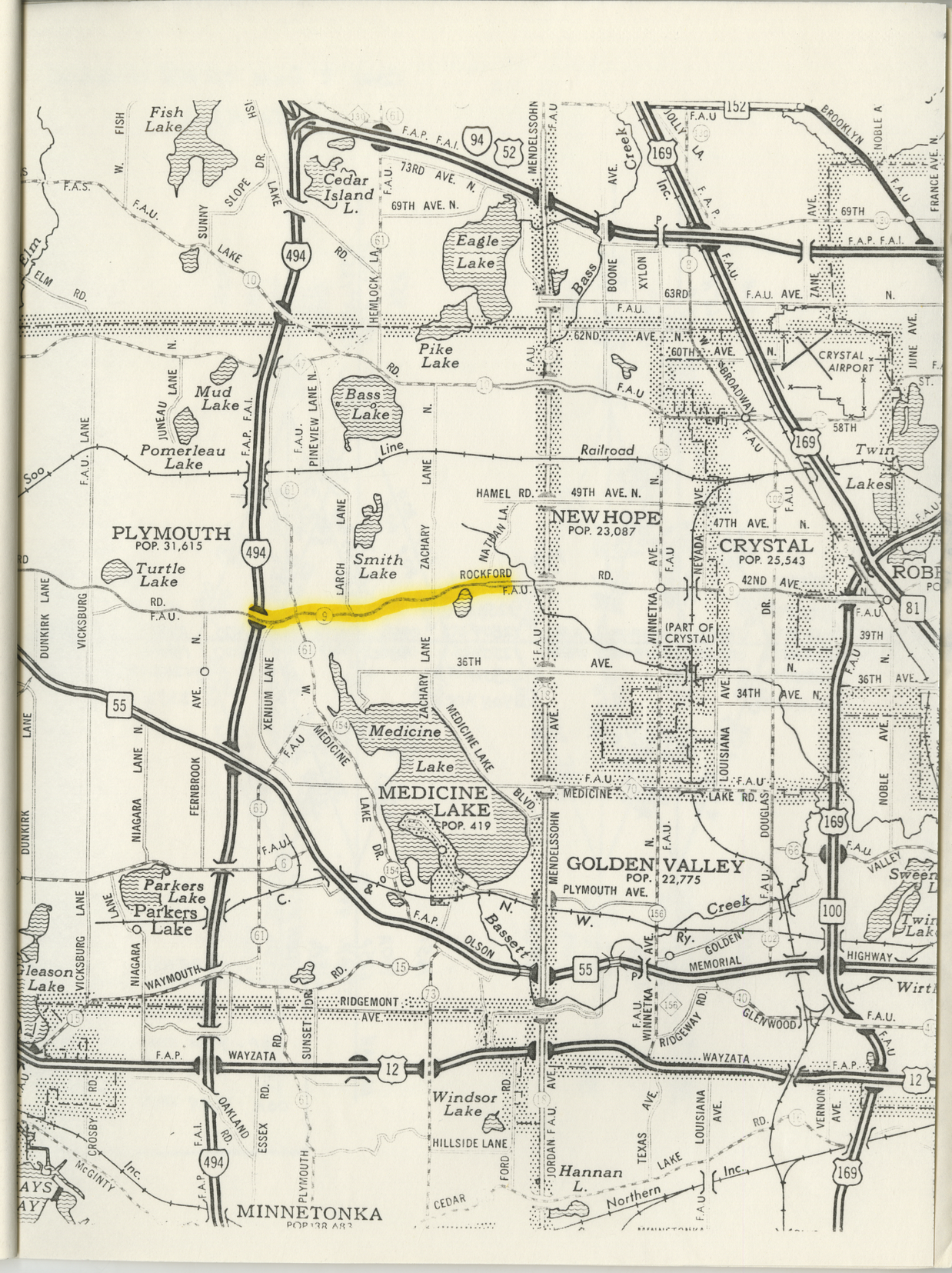
If we may be of further assistance to you, please contact Caren Grantz-Miller at 297-1466.

Sincerely,

Allan E. Pint
State Traffic Forecasts Engineer

Attachment




Fish Lake
Cedar Island L.
Eagle Lake
Pike Lake
Mud Lake
Bass Lake
Pomerleau Lake
Smith Lake
Turtle Lake
Medicine Lake
Parkers Lake
Gleason Lake
Windsor Lake
Hannan L.
Twin Lakes
PLYMOUTH POP. 31,615
NEW HOPE POP. 23,087
CRYSTAL POP. 25,543
MEDICINE LAKE POP. 419
GOLDEN VALLEY POP. 22,775
MINNETONKA
(PART OF CRYSTAL)
CRYSTAL AIRPORT
494
94
52
169
55
12
100
81
152
Soo Line Railroad
ROCKFORD RD.
HAMEL RD.
49TH AVE. N.
36TH AVE.
42ND AVE.
47TH AVE. N.
34TH AVE. N.
39TH
36TH AVE.
58TH
69TH AVE. N.
73RD AVE. N.
62ND AVE. N.
60TH AVE.
63RD
69TH
WAYZATA
WAYZATA BLVD.
RIDGEMONT AVE.
OLSON MEMORIAL HIGHWAY
GLENWOOD
MEDICINE LAKE BLVD.
MEDICINE LAKE RD.
PLYMOUTH AVE.
MENDELSSOHN
WINNETKA AVE.
NEVADA AVE.
LOUISIANA AVE.
DOUGLAS DR.
BOONE
XYLON
ZANE
BROADWAY
JUNE AVE.
NOBLE AVE.
VICKSBURG LANE
DUNKIRK LANE
NIAGARA LANE N.
FERNBROOK
XENIUM LANE
LARCH LANE
ZACHARY LANE
PINEVIEW LANE N.
JUNEAU LANE N.
HEMLOCK LA.
NATHAN LA.
SUNNY SLOPE DR.
ELM RD.
OAKLAND RD.
ESSEX RD.
SUNSET DR.
PLYMOUTH RD.
HILLSIDE LANE
CEDAR
FORD RD.
JORDAN AVE.
TEXAS AVE.
VERNON AVE.
RIDGEWAY RD.
Bassett Creek
Northern Inc.
F.A.U.
F.A.P.
F.A.I.
F.A.S.

CSAH 9 from TH 494 to Nath

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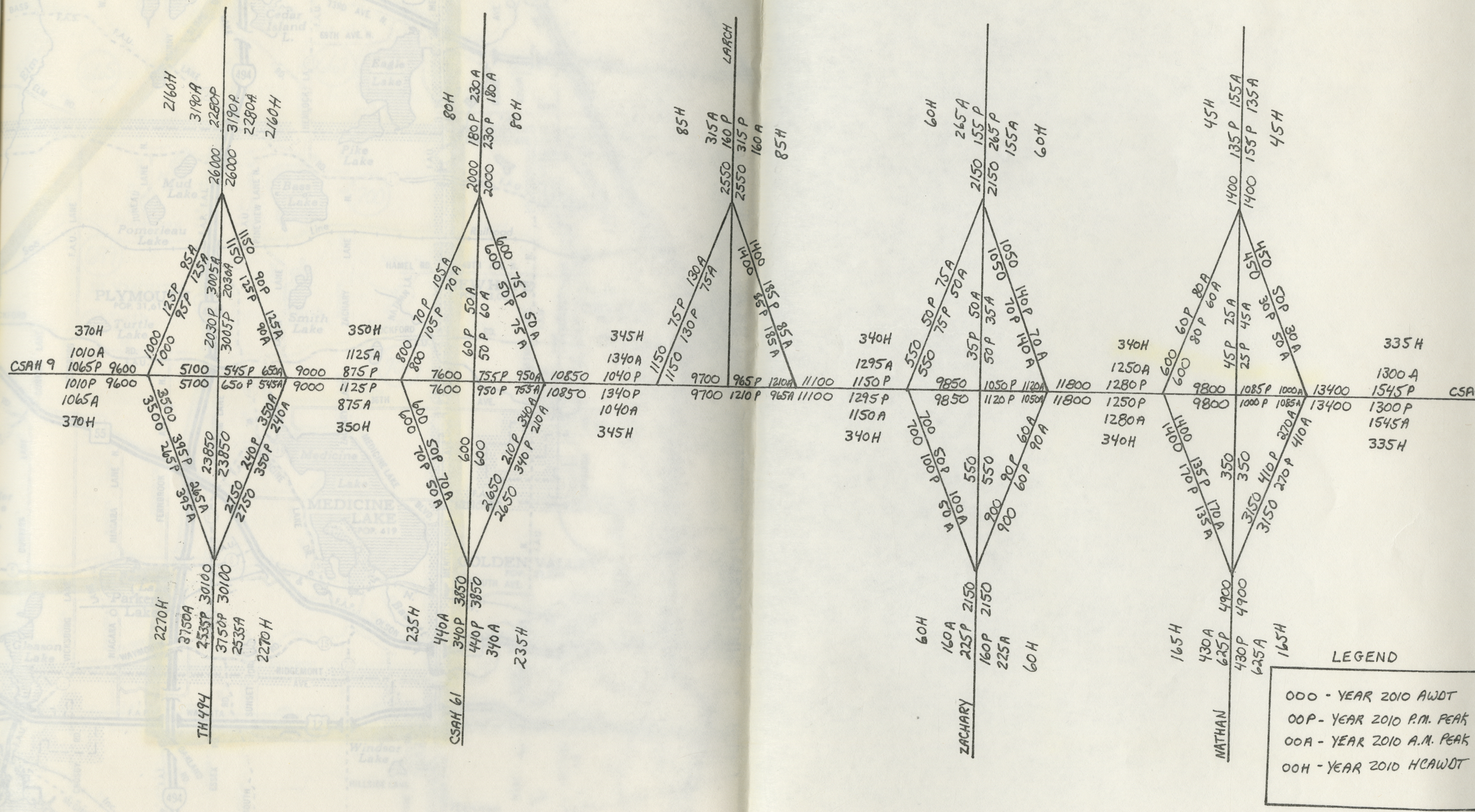
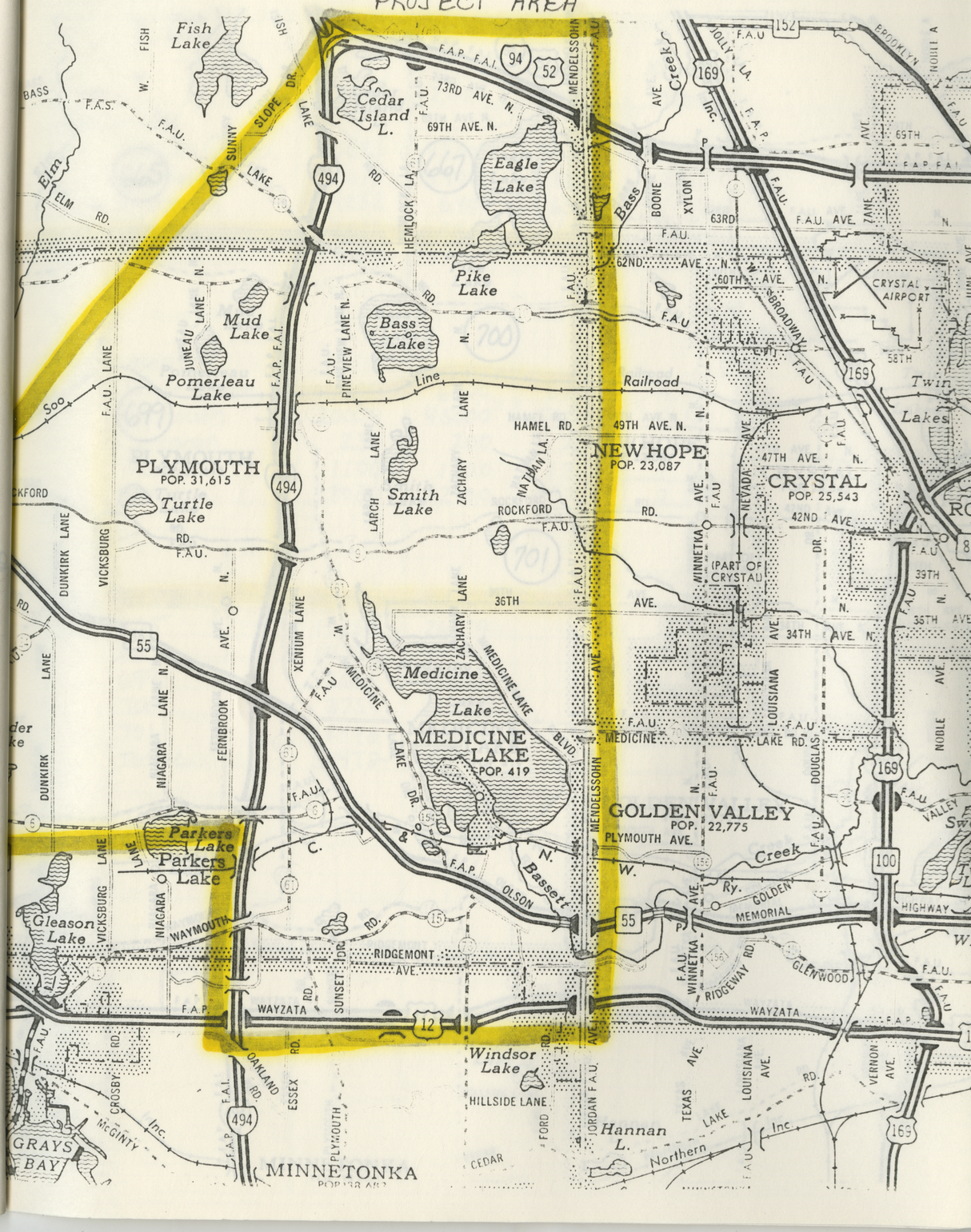


LEGEND

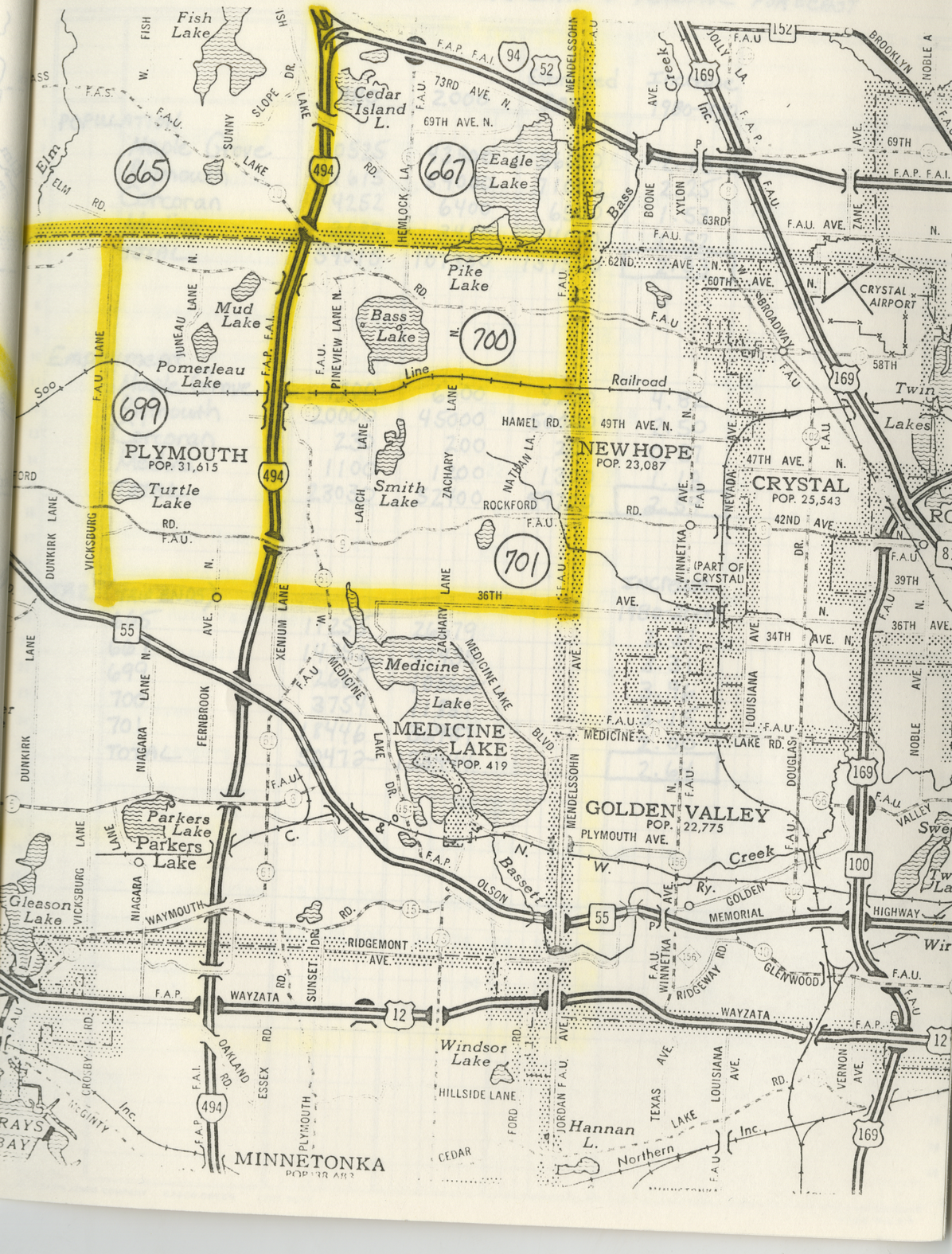
- OOO - YEAR 2010 AWDT
- OOP - YEAR 2010 P.M. PEAK
- OOA - YEAR 2010 A.M. PEAK
- OOH - YEAR 2010 HCAWDT

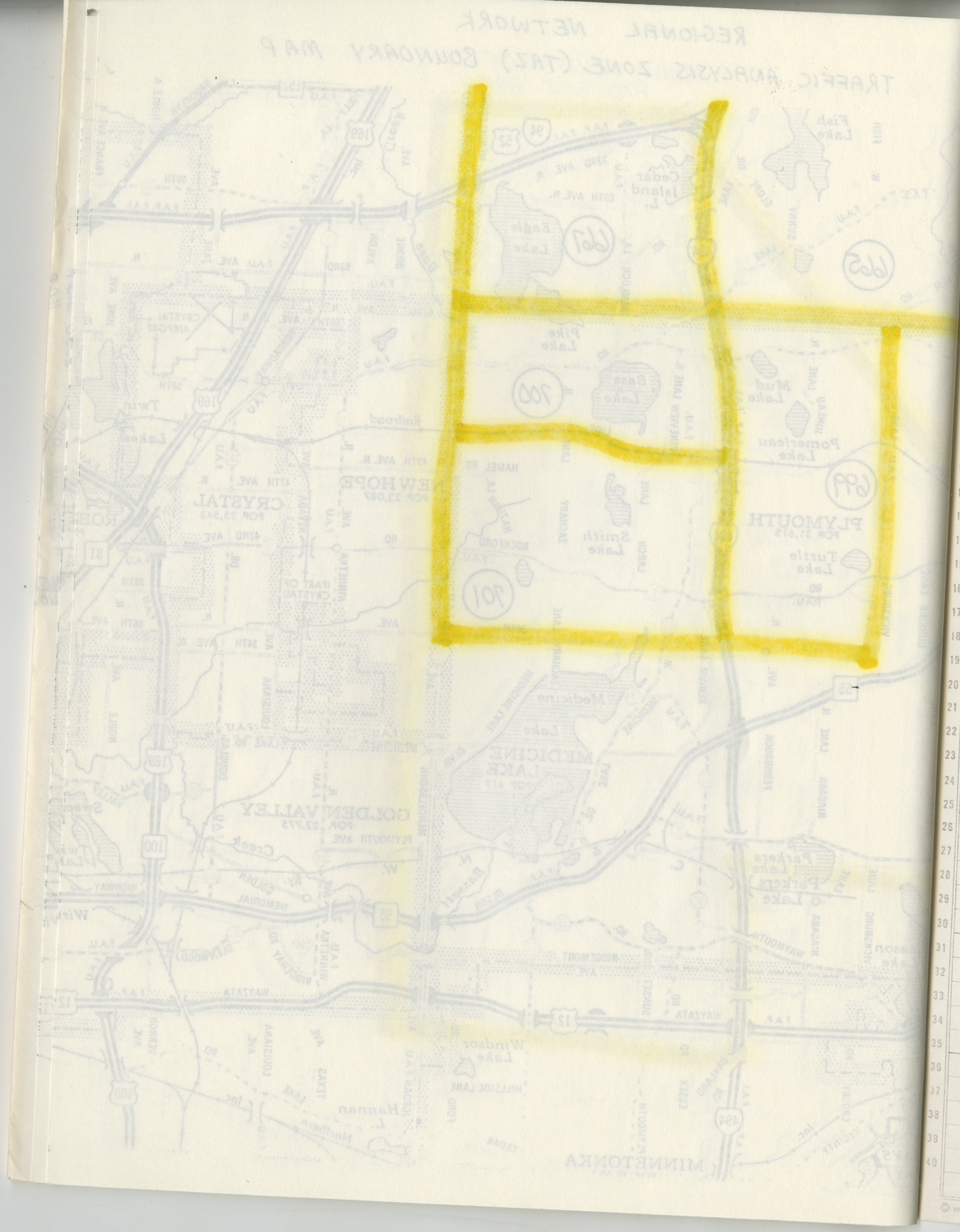
IRAP WINDOW OF THE PROJECT AREA



REGIONAL NETWORK

TRAFFIC ANALYSIS ZONE (TAZ) BOUNDARY MAP





METROPOLITAN COUNCIL SOCIOECONOMIC DATA & PLANPAC FORECAST

	1980	2000	Estimated 2010	Increase 1980-2010
POPULATION				
Maple Grove	20525	43500	56000	2.73
Plymouth	31615	54000	71000	2.25
Corcoran	4252	6400	6500	1.53
Medina	2623	3400	4000	1.52
TOTAL	59015	107300	137500	2.33
Employment				
Maple Grove	1700	6000	8200	4.82
Plymouth	20000	45000	50000	2.50
Corcoran	230	200	200	0.87
Medina	1100	1200	1300	1.18
TOTAL	23030	52400	59700	2.59

TAZ (TRIP ENDS)			Increase 1980-2000
665	11255	26679	2.37
667	14352	47435	3.31
699	2665	10562	3.96
700	3754	11831	3.15
701	18446	36937	2.00
TOTAL	50472	133444	2.64

REGIONAL TRAVEL STATISTIC SUMMARY

	1970	1980R	2000	2000B	Pct Chg 1980R-2000B
Total Employment	853,300	1,037,760	1,349,800	1,400,000	35
Total Households	573,800	750,128	934,000	910,000	21
Total Population	1,874,600	1,985,860	2,469,000	2,260,000	14
Persons/Household	3.27	2.65	2.64	2.48	- 6
Trip Rate/Household	8.89	8.93	8.98	8.93	0
Trip Rate/Person	2.72	3.37	3.40	3.60	6
Trip Length (Min)	17.1	14.4	14.9	14.9	3
Percent Home to Work	23	22	21	19	
Percent Home to Other	55	4	59	53	
Percent Non Home	21	28	20	28	
Percent Auto Driver	66	75	59	74	
Percent Auto Passenger	31	21	35	22	
Percent Transit	3	4	5	4	
Auto Drivers		5,083,937		6,060,952	19
Auto Passengers		1,418,780		1,796,663	27
Transit Passengers		249,207		278,385	12
Total Person Trips	5,095,000	6,751,924	8,547,000	8,136,000	20
Motor Vehicle Trips	3,570,000	5,024,570	5,985,200	6,142,553	22
Vehicle Miles	23,828,700	34,776,186	39,362,000	47,144,495	36
Auto Occupancy	1.50	1.34	1.59	1.30	2

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